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1   XML stream processing using tree-edit distance embeddings

Minos Garofalakis, Amit Kumar
March   ACM Transactions on Database Systems (TODS),   Volume 30 Issue 1
2005
Publisher: ACM

Full text available: 📄 pdf(726.56 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 209,   Citation Count: 3

> We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution ...
>
> Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

2 Online duplicate document detection: signature reliability in a dynamic retrieval environment

Jack G. Conrad, Xi S. Guo, Cindy P. Schriber
November CIKM '03: Proceedings of the twelfth international conference on
2003   Information and knowledge management
Publisher: ACM

Full text available: pdf(215.37 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 118, Citation Count: 9

As online document collections continue to expand, both on the Web and in proprietary environments, the need for duplicate detection becomes more critical. Few users wish to retrieve search results consisting of sets of duplicate documents, whether identical ...

Keywords: data management, doc signatures, duplicate document detection

3 Verifying distributed erasure-coded data

James Hendricks, Gregory R. Ganger, Michael K. Reiter
August   PODC '07: Proceedings of the twenty-sixth annual ACM symposium on
2007   Principles of distributed computing
Publisher: ACM

Full text available: pdf(295.56 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 128, Citation Count: 0

Erasure coding can reduce the space and band width overheads of redundancy in fault-tolerant data storage and delivery systems. But it introduces the fundamental difficulty of ensuring that all erasure-coded fragments correspond to the same block of ...

Keywords: erasure codes, fault-tolerant storage, homomorphic fingerprinting

4 Communications of the ACM: Volume 51 Issue 6

June   issue Volume 51 Issue 6
2008
Publisher: ACM

Full text available: pdf(8.89 MB) digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 284, Downloads (12 Months): 284, Citation Count: 0

5 Communications of the ACM: Volume 51 Issue 3

March   issue   Volume 51 Issue 3
2008
Publisher: ACM
Full text available: pdf(7.56 MB) digital
edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 98,   Downloads (12 Months): 483,   Citation Count: 0

6 Communications of the ACM: Volume 51 Issue 4

April   issue   Volume 51 Issue 4
2008
Publisher: ACM
Full text available: pdf(4.24 MB) digital
edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 698,   Downloads (12 Months): 1236,   Citation Count: 0

7 Communications of the ACM: Volume 51 Issue 5

May   issue   Volume 51 Issue 5
2008
Publisher: ACM
Full text available: pdf(7.28 MB) digital
edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 355,   Downloads (12 Months): 355,   Citation Count: 0

8 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
2004
Publisher: ACM
Full text available: pdf(20.64
MB)   Additional Information: full citation, cited by

Bibliometrics: Downloads (6 Weeks): 274,   Downloads (12 Months): 1618,   Citation Count: 2

9 Communications of the ACM: Volume 51 Issue 1

January   issue   Volume 51 Issue 1
2008
Publisher: ACM

Full text available: pdf(5.97 MB) digital   Additional Information: full citation, index terms
edition

Bibliometrics: Downloads (6 Weeks): 908, Downloads (12 Months): 2862, Citation Count: 0

10 Bioinformatics—an introduction for computer scientists

Jacques Cohen
June   ACM Computing Surveys (CSUR), Volume 36 Issue 2
2004
Publisher: ACM

Full text available: pdf(261.56   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 178, Downloads (12 Months): 1364, Citation Count: 6

    The article aims to introduce computer scientists to the new field of bioinformatics.
    This area has arisen from the needs of biologists to utilize and help interpret the vast
    amounts of data that are constantly being gathered in genomic research---and ...

    Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell
    simulation and modeling, computer, dynamic programming, hidden-Markov-models,
    microarray, parsing biological sequences, phylogenetic trees

11 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw
Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
2004
Publisher: ACM

Full text available: pdf(17.65   Additional Information: full citation, abstract, cited by
MB)

Bibliometrics: Downloads (6 Weeks): 268, Downloads (12 Months): 1447, Citation Count: 1

    This updated course on simulating natural phenomena will cover the latest research
    and production techniques for simulating most of the elements of nature. The
    presenters will provide movie production, interactive simulation, and research
    perspectives ...

12 Projectors: advanced graphics and vision techniques

Ramesh Raskar
August   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
2004
Publisher: ACM

Full text available: pdf(6.53 MB)

Additional Information: full citation, cited by

Bibliometrics: Downloads (6 Weeks): 121, Downloads (12 Months): 691, Citation Count: 1

13 Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín
September   ACM Computing Surveys (CSUR), Volume 33 Issue 3
2001
Publisher: ACM

Full text available: pdf(916.04 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 103, Downloads (12 Months): 482, Citation Count: 58

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

14 From entry to access: how shareability comes about

Eva Hornecker, Paul Marshall, Yvonne Rogers
August   DPPI '07: Proceedings of the 2007 conference on Designing pleasurable
2007   products and interfaces
Publisher: ACM

Full text available: pdf(862.89 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 192, Citation Count: 0

Shareability is a design principle that refers to how a system, interface, or device engages a group of collocated, co-present users in shared interactions around the same content (or the same object). This is broken down in terms of a set of components ...

15 Archiving scientific data

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

March   ACM Transactions on Database Systems (TODS),   Volume 29 Issue 1
2004
Publisher: ACM

Full text available: pdf(745.61 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 28,   Downloads (12 Months): 200,   Citation Count: 7

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierachical format and has a key structure that provides ...

Keywords: Keys for XML

16 ACM SIGMOBILE Mobile Computing and Communications Review: Volume 9 Issue 4

October   issue Volume 9 Issue 4
2005
Publisher: ACM

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

17 Surf's up: the making of an animated documentary

Rob Bredow, David Schaub, Daniel Kramer, Matthew Hausman, Danny Dimian, R. Stirling Duguid

August   SIGGRAPH '07: ACM SIGGRAPH 2007 courses
2007
Publisher: ACM

Full text available: pdf(152.86 MB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 68,   Downloads (12 Months): 774,   Citation Count: 0

The CG animated documentary *Surf's Up* called for unique production techniques to be leveraged throughout the creation of the film. This half day course presents an in-depth look at several of the key aspects of the production: • Integration ...

18 The US/Mexico border crossing card (BCC): a case study in biometric, machine-readable id

Andrew Schulman

April 2002   CFP '02: Proceedings of the 12th annual conference on Computers, freedom and privacy

Publisher: ACM

Full text available: html(187.31 KB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 231, Citation Count: 0

19 The basics of e-learning: an excerpt from handbook of human factors in web design

Lisa Neal, Diane Miller

August 2005   eLearn, Volume 2005 Issue 8

Publisher: ACM

Full text available: html(121.89 KB) Publisher Site   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 332, Citation Count: 1

20 Single-packet IP traceback

Alex C. Snoeren, Craig Partridge, Luis A. Sanchez, Christine E. Jones, Fabrice Tchakountio, Beverly Schwartz, Stephen T. Kent, W. Timothy Strayer

December 2002   IEEE/ACM Transactions on Networking (TON), Volume 10 Issue 6

Publisher: IEEE Press

Full text available: pdf(528.41 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 137, Citation Count: 21

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, widespread packet forwarding techniques such as NAT and encapsulation may ...

Keywords: IP traceback, computer network management, computer network security, denial of service (DoS), network fault diagnosis, wide-area networks (WANs)

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